



# The American Statistical Association

## San Francisco Bay Area Chapter

Since 1928

*November, 1995*

### Joint Biostatistics and General Applications Program

#### Betting on Football - From Point Spreads to Predictions

**Mike Orkin**

Chairman, Statistics Department  
California State University, Hayward

Although illegal outside Nevada (and the Oregon lottery), betting on football is a multi-billion dollar industry. I will discuss point spread betting and other types of football bets from both the gambler's and bookmaker's points of view. I will also talk about how gamblers look through past data to make predictions.

**Date:** Thursday, November 16, 1995

**Time:** 3:30 - 4:00 Coffee  
4:00 - 5:00 Talk

**Place:** Room 1011, Evans Hall  
University of California, Berkeley  
(See map on reverse.)

**PRESIDENT**  
Loren Schoof  
(510) 823-9020

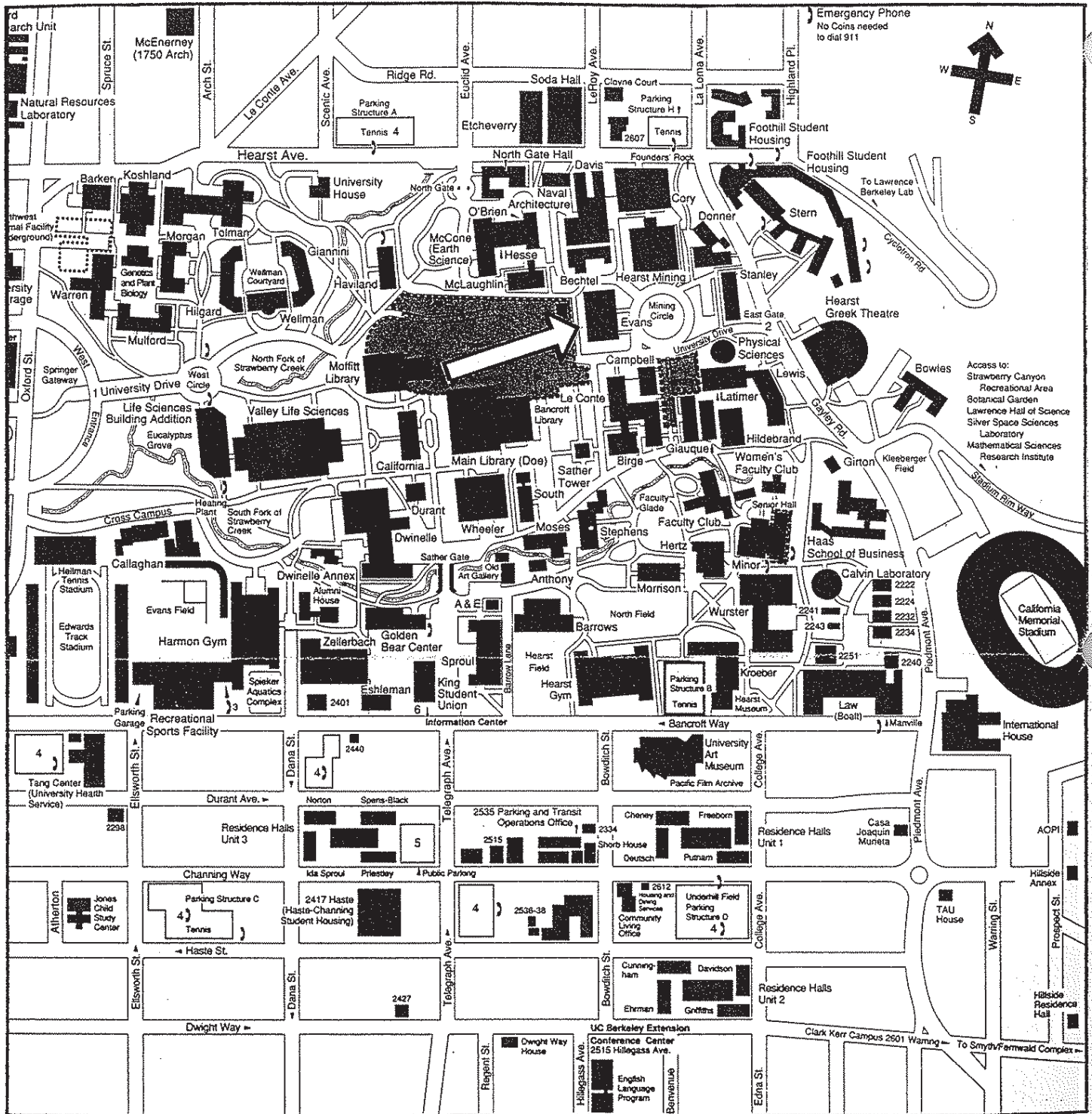
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(415) 688-7203

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(415) 393-5213

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Michael Lock  
(408) 954-2583



From I 80 in Berkeley, take University Avenue east until it ends at the west gate of the campus. Evans Hall, on the east side of the campus, is marked with an arrow in the map above. Limited free and metered parking is available on the residential streets (LeRoy Ave., La Loma Ave., Ridge Rd. and Highland Pl.) north of the campus. Additional metered parking can be found along

Hearst and Oxford Avenues. Additionally, the City of Berkeley operates a meter parking lot at Hearst and Alston, and a parking garage at 2025 Center St. Free campus shuttle buses stop at Evans Hall and numerous other locations around the campus including across from the Berkeley BART station on Shattuck Ave.

## Employment Opportunities

### Biostatistician

Roche Bioscience, Palo Alto

The Department of Biomathematics at Roche Bioscience, a pharmaceutical research center, seeks a biostatistician with Ph.D. and 1-3 years experience or M.S. with 3-5 years experience in statistical/mathematical analysis of biological data. You will act as a consultant to colleagues in biology and chemistry, providing expertise on experimental design, analysis, and interpretation of results for studies in preclinical bioassay development and for regulatory submission. Must possess a broad knowledge of mathematical/statistical theory and know how to apply these techniques to the day-to-day research of a biological laboratory. You should also continue to develop your own statistical methodologies and mathematical models as an ongoing area of research. Excellent interpersonal communication skills a must.

Please mail, fax, or e-mail your resume to Roche Bioscience, 3401 Hillview Ave., P.O. Box 10850, Palo Alto, CA 94303, Attn: Ondine Callan, M/S S1-137; fax (415) 855-5627; e-mail [ondine.callan@syntex.com](mailto:ondine.callan@syntex.com).

### Director of Biometrics

South Bay Biotechnology Company

Will be responsible for directing the following programs: Biostatistics, Data Management and Systems Information Technology, and Surveillance and Adverse Event Reporting. He/she will directly supervise 6-7 individuals (including 2 PhDs)

Qualified individuals will have a Ph.D. with industry experience through Phase III or approval. He/she will have direct experience developing and/or managing similar programs.

For confidential consideration please call Kevin Glassel at (619) 431-1115 or fax at (619) 431-0660.

### Survey Research Methodologist/Statistician

MACRO Consulting Inc., Mountain View

The ideal candidate will have an M.S. or Ph.D. in a related field, such as experimental psychology, applied statistics, marketing sciences, etc., a strong background in the full range of commercially applied multivariate survey statistics and study designs, particularly discrete choice models, and be able to draw practical conclusions from complex data sets. He or she must also have excellent oral and written communication skills, be strong logically, be a creative problem solver, be interested in statistical programming, be flexible, be willing to work long hours and must work well with a variety of personalities. We offer challenging and varied work, a casual, unstructured work environment and an opportunity to have fun while growing professionally.

Please mail or fax your resume and complete salary history to MACRO Consulting Inc., 2581 Leghorn Street, Mountain View, CA 94043, Attn: Personnel; fax: (415) 964-9949.

### Statistician/Biostatistician

Becton Dickinson Immunocytometry Systems, San Jose

Becton Dickinson Immunocytometry Systems is seeking a biostatistician in the Research and Technology Development Department. BDIS, a division of Becton, Dickinson and Company, develops and markets sophisticated flow cytometry instrument, software, and reagent systems used for cell analysis. The successful applicant will be responsible for the application of standard and advanced statistical methodology in expediting the development, evaluation, registration (with regulatory agencies), and manufacturing of products. You would be responsible for all statistical work aspects of individual development and clinical protocols, including: protocol review, sample size, trial design, selection of statistical methodology, data analysis and summarization, preparation of final statistical report, and review of final clinical report. You would interact directly with developers and clinical investigators during the protocol development/trial analysis.

The position typically requires a MS/PhD in statistics or mathematics, or equivalent combination of related education and experience, with expertise in standard statistical methodology. You must have the ability to perform routine statistical analysis using SAS, S-Plus, etc. Experience in software languages and computer systems is desirable. Effective interpersonal, analytical, problem solving, written and oral communication skills are required. Send your resume to Becton Dickinson Immunocytometry Systems, Professional Staffing, Dept. CA-LR, 2350 Qume Drive, San Jose, CA 95131-1807, or FAX to 408-435-0889. eoe

### Statistical Research Consultant

Kaiser Permanente, Oakland

The Special Studies department of Kaiser Permanente's Program Offices is seeking a statistical research consultant. This FTE position requires at least a Master's degree with an emphasis on quantitative studies and three or more years of research, preferably in health care. Applicants must demonstrate knowledge of multivariate and distributional statistical methods, proficiency in SAS programming and familiarity with technical consulting. Studies apply epidemiologic and statistical methods to analyses of large, complex computerized data sets. Current topics include assessment of health outcomes, development of risk adjustment techniques and analysis of health services utilization. Send CV to: Director of Special Studies, Kaiser Permanente, One Kaiser Plaza, Oakland, CA 94612, Fax: (510) 271-5815.

### Seeking Employment

Statistician with an M.S. in Statistics is looking for a position in the Total Quality Management (TQM) field. For the past 8 years my responsibilities have been to teach and implement TQM and statistical process control. For a resume or additional information, please call David Doll at (510) 881-1000.

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## Employment Opportunities

### Statistician/Biostatistician

University of California, San Francisco

The UCSF Osteoporosis Research Group, Department of Radiology is looking for a statistician or biostatistician with a Master's Degree in Epidemiology, Statistics, Public Health, or a related field (or Bachelor's Degree and three years' experience) to analyze data generated from multiple, parallel, ongoing quality assurance projects exploring the effects of drug treatment and prophylaxis on bone mass and the occurrence of fracture. Required: thorough knowledge of SAS programming including SAS Macros (knowledge of S plus preferred); familiarity with DOS, Macintosh, UNIX and VMS environment. Pharmaceutical industry experience is preferred. Please send your CV and a cover letter referencing Job # B-3972T to: UCSF Personnel, Box 0832, 1350 Seventh Avenue, San Francisco, CA 94143-0832 aa/eoe/fmdv

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## Join the SF Bay Area ASA Chapter

If you are not currently a member of the local chapter of the ASA and would like to join, send a note with your name and address to Jim Lenihan, 1 Appian Way #702-2, South San Francisco, CA 94080. Please enclose a check for one year's membership, \$9, payable to "ASA, Bay Area Chapter". Student membership dues are \$3 per year.

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## Survival Analysis Course

Dr. Terry Therneau of the Mayo Clinic will be teaching a two-day course "Modern Survival Analysis in S-PLUS" on December 14-15 at the Fisherman's Wharf Marriott in San Francisco. Topics will include: Estimating survival curves, Expected survival, Parametric Models, the Cox model, Residuals for Cox models, Counting process formulation of Cox model, Estimation of functional forms, time dependent coefficient models and Multiple Events.

One-half of each section is devoted to hands-on experience. Written materials will include SAS and S-PLUS code for many of the examples, particularly those dealing with extending the Cox model. Previous S-PLUS experience is NOT required.

Call StatSci at 800-569-0123 for a complete course syllabus and price.

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## Newsletter Submissions

If you have a job opening, announcement, or other piece of information you would like to share with chapter members, or would like your newsletter address changed, send an e-mail message to

[sfasa@stat.berkeley.edu](mailto:sfasa@stat.berkeley.edu)

or call me, Michael Lock, at (408) 954-2583.



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Mountain View, CA 94040